



e-chains® | E4.31L | Crossbars every link (openable along inner and outer radius, from both sides)
 e-tubes | R4.31L | Fully enclosed (lids openable along inner and outer radius, from both sides)

| Part No. | Part No. | Bi | Ba | E4.31L | R4.31L | Part No. | Part No. | Bi | Ba | E4.31L | R4.31L |
|----------------|----------------|------|------|--------|--------|------------------|------------------|------|------|--------|--------|
| e-chains® | e-tubes | [mm] | [mm] | [kg/m] | [kg/m] | e-chains® | e-tubes | [mm] | [mm] | [kg/m] | [kg/m] |
| E4.31L.040.R.0 | - | 40 | 54 | ≈ 0.70 | - | E4.31L.125.R.0 | R4.31L.125.R.0** | 125 | 139 | ≈ 0.96 | ≈ 1.28 |
| E4.31L.050.R.0 | R4.31L.050.R.0 | 50 | 64 | ≈ 0.74 | ≈ 0.87 | E4.31L.137.R.0** | - | 137 | 151 | ≈ 0.98 | - |
| E4.31L.062.R.0 | - | 62 | 76 | ≈ 0.76 | - | E4.31L.150.R.0 | R4.31L.150.R.0** | 150 | 164 | ≈ 1.00 | ≈ 1.40 |
| E4.31L.075.R.0 | R4.31L.075.R.0 | 75 | 89 | ≈ 0.78 | ≈ 1.01 | E4.31L.162.R.0 | - | 162 | 176 | ≈ 1.04 | - |
| E4.31L.087.R.0 | - | 87 | 101 | ≈ 0.83 | - | E4.31L.175.R.0 | R4.31L.175.R.0** | 175 | 189 | ≈ 1.13 | ≈ 1.55 |
| E4.31L.100.R.0 | R4.31L.100.R.0 | 100 | 114 | ≈ 0.88 | ≈ 1.10 | E4.31L.187.R.0** | - | 187 | 201 | ≈ 1.17 | - |
| E4.31L.112.R.0 | - | 112 | 126 | ≈ 0.93 | - | E4.31L.200.R.0** | R4.31L.200.R.0** | 200 | 214 | ≈ 1.17 | ≈ 1.68 |

**Width available upon request. Please consult igus® for delivery time.

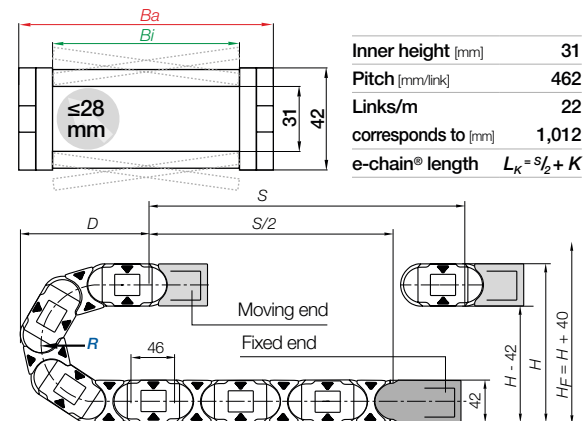
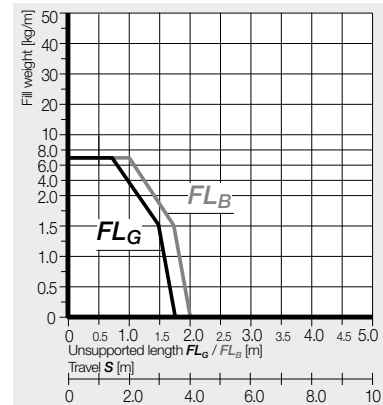
1) Radius not available for e-tubes

Available bend radii

R [mm] | 055¹⁾ | 063¹⁾ | 075 | 100 | 125 | 150 | 175 | 200 | 250 |

Complete Part No. with required radius (R). Example:

E4.31L.050.075.0 = crossbars every link / R4.31L.050.075.0 = fully enclosed

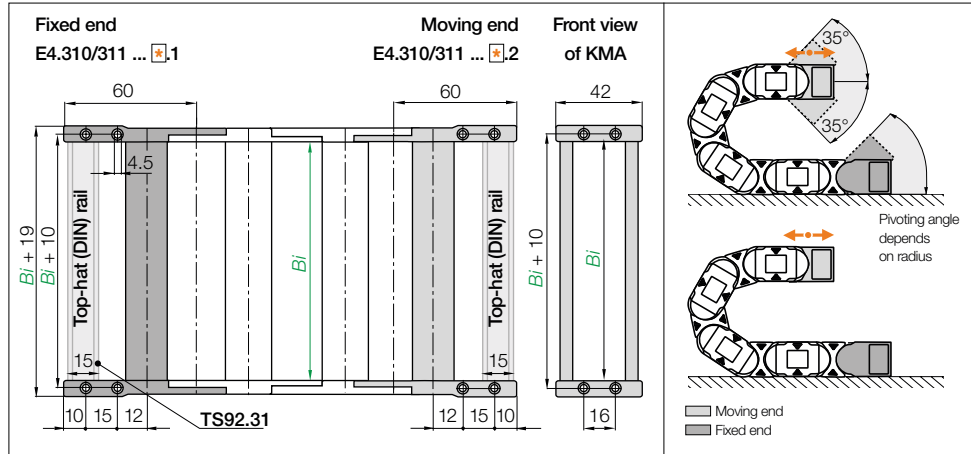


| | 055 ¹⁾ | 063 ¹⁾ | 075 | 100 | 125 | 150 | 175 | 200 | 250 |
|---|-------------------|-------------------|-----|-----|-----|-----|-----|------|-----|
| R | 055 ¹⁾ | 063 ¹⁾ | 075 | 100 | 125 | 150 | 175 | 200 | 250 |
| H | 15 2 | 168 | 192 | 242 | 292 | 342 | 392 | 44 2 | 542 |
| D | 145 | 153 | 165 | 190 | 215 | 240 | 265 | 290 | 340 |
| K | 265 | 290 | 330 | 410 | 485 | 565 | 645 | 725 | 880 |

The required clearance height: $H_F = H + 40\text{mm}$ (with 1.0kg/m fill weight)

1) Radius not available for e-tubes

If a gliding application is required for a long travel, please consult igus®.



KMA pivoting | Recommended for unsupported and gliding applications
KMA locking | Recommended for vertical hanging and standing applications

| Width index | Part No. full set KMA pivoting | Part No. full set KMA locking | Bi [mm] | Width index | Part No. full set KMA pivoting | Part No. full set KMA locking | Bi [mm] |
|-------------|-----------------------------------|----------------------------------|---------|-------------|-----------------------------------|----------------------------------|---------|
| 040. | E4.310.040.12.C | E4.311.040.12.C | 40 | 125. | E4.310.125.12.C | E4.311.125.12.C | 125 |
| 050. | E4.310.050.12.C | E4.311.050.12.C | 50 | 137. | E4.310.137.12.C* | E4.311.137.12.C* | 137 |
| 062. | E4.310.062.12.C | E4.311.062.12.C | 62 | 150. | E4.310.150.12.C | E4.311.150.12.C | 150 |
| 075. | E4.310.075.12.C | E4.311.075.12.C | 75 | 162. | E4.310.162.12.C | E4.311.162.12.C | 162 |
| 087. | E4.310.087.12.C | E4.311.087.12.C | 87 | 175. | E4.310.175.12.C | E4.311.175.12.C | 175 |
| 100. | E4.310.100.12.C | E4.311.100.12.C | 100 | 187. | E4.310.187.12.C* | E4.311.187.12.C* | 187 |
| 112. | E4.310.112.12.C | E4.311.112.12.C | 112 | 200. | E4.310.200.12.C* | E4.311.200.12.C* | 200 |

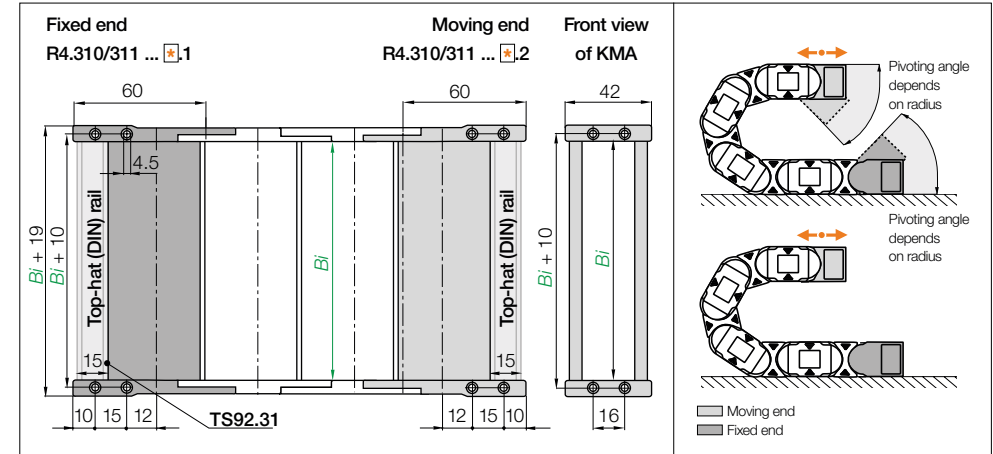
(KMA = polymer metal mounting bracket) For the TS92.31 top-hat (DIN) rail option please add index .C

*Width available upon request. Delivery time upon request. **Note:** If a gliding application is required for a long travel, please consult igus®.

Strain relief elements with tiewrap teeth

- Stepped strain relief element outside of the e-chain® cross section
- For e-chains® and e-tubes
- Easy to retrofit
- Simple installation into top hat (DIN) rail 15 (TS92.31)

Part No. CFV.31.N15 - more information ▶ From page 1428



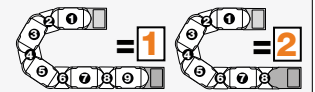
KMA pivoting | Recommended for unsupported and gliding applications
KMA locking | Recommended for vertical hanging and standing applications

| Width index | Part No. full set KMA pivoting | Part No. full set KMA locking | Bi [mm] | Width index | Part No. full set KMA pivoting | Part No. full set KMA locking | Bi [mm] |
|-------------|-----------------------------------|----------------------------------|---------|-------------|-----------------------------------|----------------------------------|---------|
| 050. | R4.310.050.12.C | R4.311.050.12.C | 050 | 150. | R4.310.150.12.C* | R4.311.150.12.C* | 150 |
| 075. | R4.310.075.12.C | R4.311.075.12.C | 075 | 175. | R4.310.175.12.C* | R4.311.175.12.C* | 175 |
| 100. | R4.310.100.12.C | R4.311.100.12.C | 100 | 200. | R4.310.200.12.C* | R4.311.200.12.C* | 200 |
| 125. | R4.310.125.12.C* | R4.311.125.12.C* | 125 | | | | |

(KMA = polymer metal mounting bracket) For the TS92.31 top-hat (DIN) rail option please add index .C

*Width available upon request. Delivery time upon request. **Note:** If a gliding application is required for a long travel, please consult igus®.

Note: The e-chains® may end with either an inner or an outer side link. An outer side link should always be the first e-chain® link at the moving end. Please specify the index **1** (for odd) or **2** (for even) depending on an even or odd number of links required.



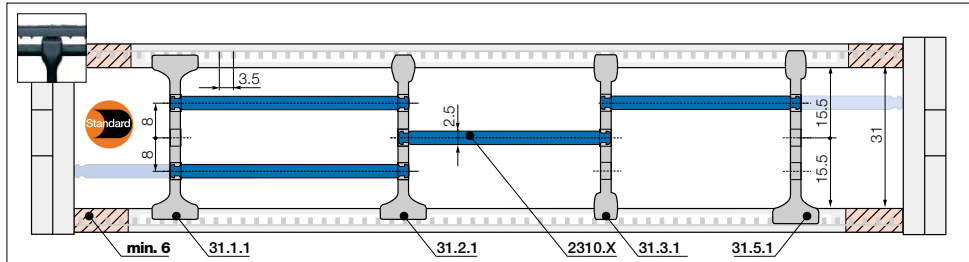
Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile**, please attach index **.A1, .A2, .A3 or .A4**.

E4.310.100.12.C.A2 Order example

- .A... to indicate option with brackets pre-fitted
- C-profile option
- Full set
- Even numbers of links
- Width index
- Series



Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392



Note: Please be aware of the minimum lateral gap to the side links! **e-tube: 6mm** | **e-chain®: 6mm**
As standard separators are fitted every 2nd e-chain® link!

Standard separator, wide base

| | |
|-------------|--------|
| unassembled | 31.1 |
| assembled | 31.1.1 |

Standard - for any application
Separator with a wide base for maximum holding force.

Separator, narrow top

| | |
|-------------|--------|
| unassembled | 31.2 |
| assembled | 31.2.1 |

For even faster installation
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

Separator, narrow

| | |
|-------------|--------|
| unassembled | 31.3 |
| assembled | 31.3.1 |

For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space.

Notch separator for notched crossbar

| | |
|-------------|-------|
| unassembled | 31.5 |
| assembled | 315.1 |

Locks securely in preset increments
Notch separator for exact positioning. Recommended for side-mounted applications.

Shelf, lockable

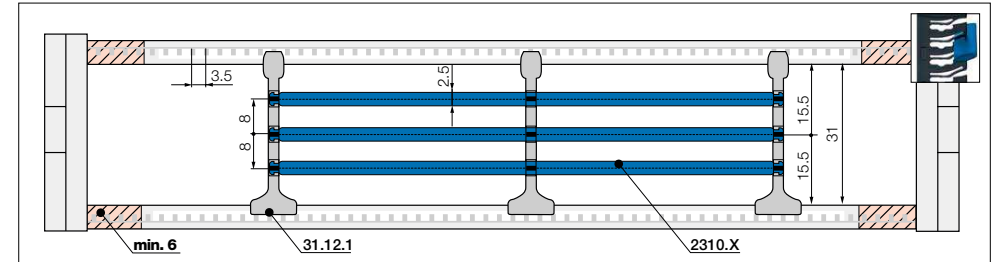
| | |
|-------------|--------|
| unassembled | 2300.X |
| assembled | 2310.X |

Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves
Width = X [mm]



| X [mm] | unassembled | assembled | X [mm] | unassembled | assembled | X [mm] | unassembled | assembled |
|--------|-------------|-----------|--------|-------------|-----------|--------|-------------|-----------|
| 015 | 2300.015 | 2310.015 | 060 | 2300.060 | 2310.060 | 087 | 2300.87 | 2310.087 |
| 025 | 2300.025 | 2310.025 | 062 | 2300.062 | 2310.062 | 090 | 2300.90 | 2310.090 |
| 030 | 2300.030 | 2310.030 | 065 | 2300.065 | 2310.065 | 100 | 2300.100 | 2310.100 |
| 038 | 2300.038 | 2310.038 | 070 | 2300.070 | 2310.070 | 103 | 2300.103 | 2310.103 |
| 040 | 2300.040 | 2310.040 | 075 | 2300.075 | 2310.075 | 110 | 2300.110 | 2310.110 |
| 050 | 2300.050 | 2310.050 | 077 | 2300.077 | 2310.077 | 120 | 2300.120 | 2310.120 |
| 057 | 2300.057 | 2310.057 | 080 | 2300.080 | 2310.080 | 125 | 2300.125 | 2310.125 |



Note: Please be aware of the minimum lateral gap to the side links! **e-tube: 6mm** | **e-chain®: 6mm**
As standard separators are fitted every 2nd e-chain® link!

Lean separator¹⁾

| | |
|-------------|---------|
| unassembled | 31.12 |
| assembled | 31.12.1 |

Lean separators¹⁾
For quick fitting of shelves in several layers.
1) Note: Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains!

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%²⁾.

²⁾ Lean interior separation vs. Standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory



Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
 - Combines strain relief and interior separation, for restricted space conditions
 - Strain relief separator is easy to assemble without any screws
- Part No. 31.Z - more information ▶ From page 1424**



Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
 - Noise-reducing glide strip integrated as standard
 - Easy installation and connection of the e-tube
 - Open design - dirt and debris fall through
- More information ▶ From page 1362**

